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To the Claims

Please cancel claims 14-24. Please amend claims 1-13 read as follows. A marked-up version of the amended claims is attached at the end of this Amendment and Response.

- 1. (Amended) A method for cleaning semiconductor elements with ozonized deionized water in a tank, the method comprising:
 - supplying oxygen to an ozone generator to generate an ozone/oxygen mixture according to the principle of silent electrical discharge;
 - supplying the ozone/oxygen mixture to a contactor which has a through-flow of deionized water to produce the ozonized deionized water;
 - adding sufficient CO₂ to the ozone/oxygen mixture supplied to the contactor to increase an ozone concentration in the ozonized deionized water delivered to the tank;
 - directing the ozonized deionized water through the tank to clean the semiconductor elements; and

removing spent ozonized deionized water from the tank.

- 2. (Amended) The method of claim 1, further comprising filtering at least part of the spent ozonized deionized water, and re-circulating the filtered spent ozonized deionized water with fresh ozonized deionized water produced by the contactor.
- 3. (Twice Amended) The method of claim 1, further comprising at least substantially excluding air from the tank while cleaning the semiconductor elements.
- 4. (Twice Amended) The method of claim 1, wherein supplying the ozone/oxygen mixture to the contactor comprises causing the ozone/oxygen mixture to counterflow relative to the deionized water.
- 5. (Twice Amended) The method of claim 1, further comprising adding CO₂ to the oxygen supplied to the ozone generator to provide a CO₂ concentration of less than 5000 ppm in the oxygen to improve a stability of an ozone concentration of the ozone/oxygen mixture generated by the ozone generator.

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- 6. (Amended) The method of claim 5, wherein adding CO₂ to the oxygen supplied to the ozone generator comprises adding CO₂ to provide the CO₂ concentration in a range of 300-1000 ppm.
- (Amended) An apparatus for cleaning semiconductor elements, comprising:
 a container that receives the semiconductor elements;
 - a device for generating ozonized deionized water connected to the container via pipes,
 the container having a discharge pipe for spent ozonized deionized water, the device
 comprising

an ozone generator that generates an ozone/oxygen mixture, and

- a contactor to which deionized water is supplied and which is connected to the ozone generator via a connection pipe; and
- a CO_2 source connected via a valve to the connection pipe that directs the ozone/oxygen mixture from the ozone generator to the contactor to introduce CO_2 to the ozone/oxygen mixture.
- 8. (Amended) The apparatus of claim 7, wherein the ozone generator is connected to an oxygen supply pipe, and wherein the CO_2 source is connected to the oxygen supply pipe via a control element selected from the group comprising a choke.
- 9. (Twice Amended) The apparatus of claim 7, wherein the container is configured as an overflow tank with a collection device for the spent ozonized deionized water.
- 10. (Twice Amended) The apparatus of claim 7, further comprising a filter through which a part of the spent ozonized deionized water is directed back to the ozonized deionized water generated by the device.
- 11. (Twice Amended) The apparatus of claim 7, wherein the container is sealed to exclude surrounding air.
- 12. (Amended) The method of claim 1, wherein adding CO_2 to the ozone/oxygen mixture supplied to the contactor comprises adding CO_2 to provide a concentration in the ozone/oxygen mixture of up to $10\% CO_2$.

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- 13. (Amended) The method of claim 2 further comprising at least substantially excluding air from the tank while cleaning the semiconductor elements.
- 14 24 (Cancelled)

Please add new claims 25 and 26 as follows.

25. (New) The method of claim 12, wherein adding CO₂ to the ozone/oxygen mixture supplied to the contactor comprises adding CO₂ to provide a concentration in the ozone/oxygen mixture of less than 1.0% CO₂.

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26. (New) The method of claim 1, wherein adding sufficient CO_2 to the ozone/oxygen mixture supplied to the contactor comprises adding sufficient CO_2 to cause the ozone concentration in the ozonized deionized water delivered to the tank to have a value in the range of 50 to 150 ppm.